



Dep. P Ref
Room #8

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q85824

Young-Ho MOON, et al.

Appln. No.: 10/524,922

Group Art Unit: Unknown

Confirmation No.: Unknown

Examiner: Unknown

Filed: February 15, 2005

For: METHOD FOR THE SELECTIVE PREPARATION OF 3-OXO-4-AZA-5a-ANDROSTANE COMPOUND

REQUEST FOR REFUND

MAIL STOP 16

Director of the U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Applicants hereby respectfully request a refund in the amount of \$100.00. This refund is to be credited to Deposit Account No. 19-4880.

Applicants believe that revised 37 C.F.R. § 1.492 allows reduced search and examination fees for applications in which the national fee was not filed before December 8, 2004. The above-referenced application was filed on February 15, 2005, with a copy of the International Search Report. (A copy of the copy of transmittal letter and PTO stamped Serial Number Card is attached.) Therefore, Applicants believe they are entitled to the reduced fee.

A duplicate copy of this paper is attached.

Respectfully submitted,

John T. Callahan

John T. Callahan
Registration No. 05/19/2005 RWHITE1 00000064 10524922
FC: 1632 -500.00 OP

SUGHRUE MION, PLLC
Phone: (202) 293-7061 0010473800
Facsimile: (202) 293-7860
Reg. No. 05/19/2005 RWHITE1 0010473800
DA: 104800 Number: 10524922
FC: 9204 \$100.00 CR

23373

CUSTOMER NUMBER

Date: March 17, 2005

05/19/2005 RWHITE1 00000001 10524922

01 FC:1642

400.00 OP

15 22



DT07 Rec'd PCT/PTO 15 FEB 2005

National Stage Entry of PCT/KR2003/001629

REQUEST FOR EARLY NOTIFICATION OF SERIAL NUMBER

Inventor(s): Young-Ho MOON, Kyung-Ik LEE, Gha-Seung PARK, Chul-Hyun PARK, Jae-Cheol LEE, Gwan-Sun LEE, Young-Kil CHANG

Title: METHOD FOR THE SELECTIVE PREPARATION OF 3-OXO-4-AZA-5a-ANDROSTANE COMPOUND

Atty Doc. #: Q85824 Client: First Law Offices of Korea

Filing Date: February 15, 2005 # Pgs. Spec/Abst: 9/1* #Claims: 6

*first page of WO 2004/016595

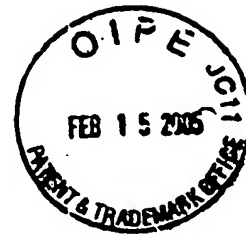
Dwg. Sheets: 2 sheets Decl yes Prelim Andt no

PTO/SB/08 A & B/ISR/IPER: yes Asgmt/PTO-1595: yes

Fees: \$1000.00 + \$40.00

☐ Check Attached ☐ Charge to Deposit # 19-4880 Atty/Sec: JTC/ech

SERIAL NO.: **10/524922** CONF NO.:





John T. Callahan
T (202) 663-7387
jcallahan@sughrue.com



T 202.293.7060
F 202.293.7860

401 Castro Street
Mountain View, CA 94041-2007
T 650.625.8100
F 650.625.8110

AIG Bldg. 14F
1-1-3 Marunouchi
Chiyoda-ku Tokyo 100-0005
Japan

T 03.5220.0200
F 03.5220.0222

www.sughrue.com

February 15, 2005

MAIL STOP PCT

Commissioner for Patents
P.O. BOX 1450
Alexandria, VA 22313-1450

PCT/KR2003/001629

-filed August 13, 2003

Re: Application of Young-Ho MOON, Kyung-Ik LEE, Gha-Seung PARK, Chul-Hyun PARK, Jae-Cheol LEE, Gwan-Sun LEE, Young-Kil CHANG
METHOD FOR THE SELECTIVE PREPARATION OF 3-OXO-4-AZA-5a-ANDROSTANE COMPOUND
Assignee: HANMI PHARM. CO., LTD
Our Ref: Q85824

Dear Sir:

The following documents and fees are submitted herewith in connection with the above application for the purpose of entering the National stage under 35 U.S.C. §371 and in accordance with the Patent Cooperation Treaty:

- ☒ a copy of the executed Declaration and Power of Attorney.
- ☒ an English translation of the International Application. Also enclosed is the first page of WO 2004/016595 A1. The Abstract that appears on the cover page of the pamphlet published by the International Bureau of WIPO is to be used by the USPTO. See MPEP § 1893.03(e).
- ☒ 2 sheets of drawings.
- ☐ an English translation of Article 19 claim amendments.
- ☐ an English translation of Article 34 amendments (annexes to the IPER).
- ☒ a copy of the executed Assignment and PTO 1595 form.
- ☒ a PTO/SB/08 A & B (modified) listing the ISR/IPER references. Also enclosed is a copy of the International Search Report (Form PCT/ISA/210) as well as a copy of the IPER (Form PCT/IPEA/409).
- ☐ a copy of each reference cited in the ISR/IPER.
- ☐ a Preliminary Amendment.
- ☒ It is expressly requested that the national stage of processing be commenced immediately in accordance with 35 U.S.C. § 371(f).

Commissioner for Patents
February 15, 2005
Page 2

It is assumed that copies of the International Application, the International Search Report and cited references, the International Preliminary Examination Report, and any Articles 19 and 34 amendments as required by §371(c) will be supplied directly by the International Bureau; but if further copies are needed, the undersigned will undertake to provide them upon request.

The Government filing fee is calculated as follows:


Total claims	6 - 20 =	X \$50.00 =	\$0.00
Independent claims	1 - 3 =	X \$200.00 =	\$0.00
		0	
Base Fee			\$300.00
Search Fee			\$500.00
Examination Fee			\$200.00
TOTAL FILING FEE			\$1000.00
Recordation of Assignment			\$ 40.00
TOTAL FEE			\$1040.00

Checks for the statutory filing fee of \$1000.00 and Assignment recordation fee of \$40.00 are attached. The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this transmittal letter is attached.

Priority is claimed from:

<u>Country</u>	<u>Application No</u>	<u>Filing Date</u>
Republic of Korea	10-2002-0048784	August 19, 2002

Respectfully submitted,


John T. Callahan
Registration No. 32,607

SUGHRUE MION, PLLC
Telephone: (202) 293-7060
Facsimile: (202) 293-7860

WASHINGTON OFFICE

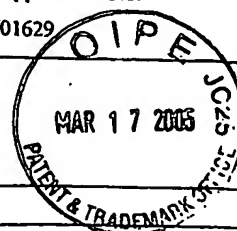
23373

CUSTOMER NUMBER

INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR03/01629



A. CLASSIFICATION OF SUBJECT MATTER

IPC7 C07D 221/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C07D 221/18

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
STN online, CA on CD, KIPASS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 02/46207 A2 (Glaxo group limited) 13 June 2002 (2002-06-13) page 7, line 7-30 example 1-2	1-6
A	US 5804576 A (Research Corporation Technologies, Inc.) 8 September 1998 (1998-09-08) scheme 1 section 37, line 49-50	1-6
A	US 4451405 A (Glaxo group limited) 29 May 1984 (1984-05-29) section 5, line 63-65	1-6
A	John F. Templeton, Samar Majid, and Angelina Marr, 'Zinc-Acetic Acid Reduction of the Steroid 4-En-3-one: Novel Conversion of the 4-En-3-one into the 2-En-4-one via a Vinyl Chloride, J. Chem. Soc. Perkin Trans. 1, 1990, Vol.9, p.2581-2584 page 2581 left column line 8-18; claim 1 page 2582 Experimental section 2a; claim 1	1
A	Peng Xia et al., 'Synthesis of N-substituted 3-Oxo-17beta-carboxamide-4-aza-Salpa-androstanes and the Tautomersim of 3-Oxo-4-aza-5-androstenes', Heterocycles, 1998, Vol.47(2), p.703-716 page 704, line 8-20; claim 1 page 705, line 12-page 706, line 2; claim 1	1

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

25 NOVEMBER 2003 (25.11.2003)

Date of mailing of the international search report

26 NOVEMBER 2003 (26.11.2003)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office
920 Dunsan-dong, Seo-gu, Daejeon 302-701,
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

LEE, HYUN SONG

Telephone No. 82-42-481-5606



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR03/01629

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
W00246207A2	13.06.2002	W00246207A3	2003-03-20
		N020031995A0	02.05.2003
		GB0026876A0	20.12.2000
		EP1335930A2	20.08.2003
		CA2427709AA	13.06.2002
		AU0241624A5	18.06.2002
US5804576A	08.09.1998	US5804576A	08.09.1998
US4451405A	29.05.1984	AU8095782A	09.09.1982
		EP0059637A1	08.09.1982
		GB2093846A	08.09.1982
		JP57158800A	30.09.1982
		NZ199859A	19.10.1984
		US4451405A	29.05.1984
		ZA8201337A	23.02.1983